Answer Key Quarterly Assessment

2nd  Quarter

1. D.
2. B.
3. C.
4. C.
5. B.
6. A.
7. B.
8. C.
9. B.
10. A.
11. C.
12. C.
13. B.
14. A.
15. A.
16. D.
17. C.
18. D.
19. C.
20. B.
21. D.
22. A.
23. C.
24. D.
25. B.

Essay Questions:

26a. If you decrease the hours of daylight, the rate of photosynthesis will decrease in plants. Sunlight is required for photosynthesis. Therefore if there is a decrease in sunlight there will be a decrease in photosynthesis.

26b. If there is a severe drought the rate of photosynthesis will decrease. Water is also required for photosynthesis. Therefore if there is a severe drought, the rate of photosynthesis will drastically decrease.

27.a &b ( See attached sheet for Punnett square) The genotypes of the parent are Dd and dd The phenotypes of the parents are one with dots and one with no dots. The genotypes Dd and dd are the only possibility for the parents to have offspring with approximately 50% lacking dots. The Punnett square shows that in order for the parents to have children with doys one of them would have to be recessive while the other parent would have to be heterozygous dominant.

28. The type of Root System that would be best for a desert setting would be the tap root system is the tap root system. The tap root system is the best because during the periods in the desert when there is no rain the tap root will be down deep in the soil accessing the moisture beneath the surface of the ground.

Punnette Square

|  |  |  |
| --- | --- | --- |
|  | D | d |
| d | Dd  (dots) | dd  (no dots) |
| d | Dd  (dots) | dd  (no dots) |